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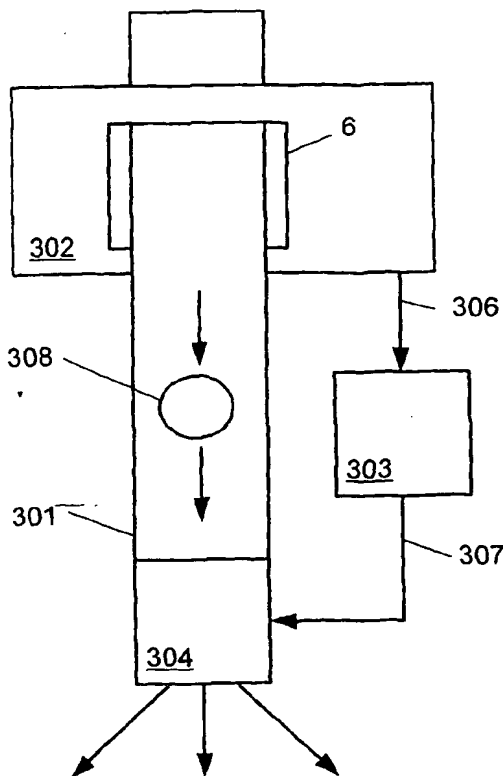
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(54) Title: A SYSTEM AND A METHOD OF AUTOMATICALLY SORTING OBJECTS



(57) **Abstract:** This system relates to a system (and a corresponding method) of automatically sorting objects, wherein said system comprises a conveyor mechanism configured for conveying an object to a sorter device; a sensor device arranged such that the objects conveyed are caused to be located essentially within a predetermined reading space; and a calculator unit configured for receiving an electrical sensor signal representative of measurement data from said sensor device and configured for generating and emitting a control signal to said sorter device configured for sorting conveyed objects in response to/on the basis of said control signal, wherein said sensor signal is configured for detecting gamma radiation emitted from a conveyed object when exposed to a neutron flux with a given energy distribution, and configured for providing said sensor signal on the basis of said detection; and wherein said control signal is generated on the basis of said sensor signal. Hereby expedient and reliable automated sorting of objects is provided, wherein the frequency of erroneous sorting is dramatically reduced, the system using another and more reliable analysis method than was previously used. Moreover, the number of sorting errors is reduced to a level that is sufficient for complying with the requirements made with respect to the environment.

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